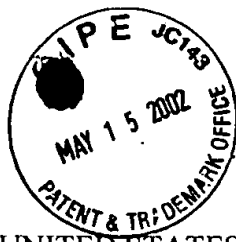


S/N 09/871,590



PATENT  
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TC 1700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	GILLINGHAM ET AL.	Examiner:	Unknown
Serial No.:	09/871,590	Group Art Unit:	Unknown
Filed:	MAY 31, 2001	Docket No.:	758.1218US01
Title:	AIR FILTRATION ARRANGEMENTS HAVING FLUTED MEDIA CONSTRUCTIONS AND METHODS		

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on \_\_\_\_\_, 2001.

By: \_\_\_\_\_  
Name: \_\_\_\_\_

Commissioner for Patents  
Washington, D.C. 20231

**DECLARATION OF DOUG CROFOOT**

Dear Sir:

1. My name is Doug Crofoot. Donaldson Company, the assignee of this patent application, has employed me for 33 years. My current title is Manager of Process Science and Technology.
2. I work in the Corporate Technology Group at Donaldson. The fine fiber material described in this patent application was developed under my management and was considered experimental until at least 5 September 2000. Before 5 September 2000, Donaldson conducted a study to determine the utility of an experimental fine fiber containing filter element. In this study a relatively small number of experimental filter elements containing the improved fine fiber material were distributed with large numbers of conventional filter elements. Returns of the filter elements were monitored to determine whether the experimental elements obtained a sufficient filter capacity during a sufficient unit lifetime. Experimental elements could not be identified by simple visual inspection of the unit. To the best of my knowledge all distributed elements were either returned or discarded and no reverse engineering of the elements occurred. Details of the experimental effort are set forth below in the following paragraphs.

3. On or about May 28, 1999, Donaldson shipped 383 experimental filter elements, to a packing company, Cal-Coast of Long Beach, CA for a customer (Solar Turbines of San Diego, CA, a subsidiary of Caterpillar Corporation of Peoria, IL.). These filter elements carried Donaldson part number P19-1280. An engineering drawing depicted filter element part number P19-1280 is attached hereto as Exhibit A.

4. As can be seen in the drawing of Exhibit A, the filter element for Donaldson part number P19-1280 is a cylindrical element having pleated filter media 1. The filter element has an inner liner 2, outer liner 3, open end cap 4, and a closed end cap 8. Positioned on the axial surface of the open end cap 4 is a circular gasket 5, oriented for forming an axial seal when pressed against a sealing surface.

5. The filter media used in part number P19-1280 combined a pleated filter non-woven fabric with a layer of spun micro fiber comprising an additive free nylon blend of about 70 wt % alkoxy alkyl modified nylon 66 and 30 wt % of a blend made up of 50 wt % nylon 6, 25 wt % nylon 66 and 25 wt % nylon 6.10. The non-woven fabric comprised a synthetic fiber/cellulosic fiber blend.

6. These elements for customer Solar were being used in a gas turbine unit.

7. On May 18, 1999, Donaldson shipped 192 experimental elements carrying part number P19-1280 to a customer (GE Belle River). The description of these elements is the same as provided in paragraphs 4 and 5 above.

8. In May, 1999, Donaldson shipped 680 experimental elements carrying part number P19-1280 to GE Belle River. The description of these elements is the same as provided in paragraphs 4 and 5 above.

9. In May or June, 1999, Donaldson shipped 1,008 experimental elements to a customer (GE Elwood). These elements carried part number P19-1280, as described above in paragraphs 4 and 5.

10. These elements referenced in paragraphs 7-9 for customer GE Belle River and GE Elwood were being used in a gas turbine unit.

11. On or about May 10, 1999, Donaldson shipped 336 experimental elements carrying part number P19-1281 to a customer in Asir Regine, Saudi Arabia. A drawing showing Donaldson part number P19-1281 is shown in the attached Exhibit B.

12. Part P19-1281 is a conical element having pleated filter media 1, an inner liner 5, an outer liner 4, an open end cap 2, and an open end cap 3. Oriented on the axial surface of each of the end caps 2 and 3 is a sealing gasket 6 that forms a seal against a surface when compressed thereagainst.

13. The filter media used in part number P19-1281 combined a pleated filter non-woven fabric with a layer of spun micro fiber comprising an additive free nylon blend of about 70 wt % alkoxy alkyl modified nylon 66 and 30 wt % of a blend made up of 50 wt % nylon 6, 25 wt % nylon 66 and 25 wt % nylon 6.10. The non-woven fabric comprised a synthetic fiber/cellulosic fiber blend.

14. The customer in Asir Regine, Saudi Arabia, was using the elements of P19-1281 in a gas turbine system.

15. On or about May 17, 1999, Donaldson shipped 336 experimental elements and 180 experimental elements, each carrying part number P19-1281 to Sociedad Alectra, Santiago, Chile. These elements were used in a gas turbine system. The filter elements had the characterization as given above in paragraphs 12 and 13.

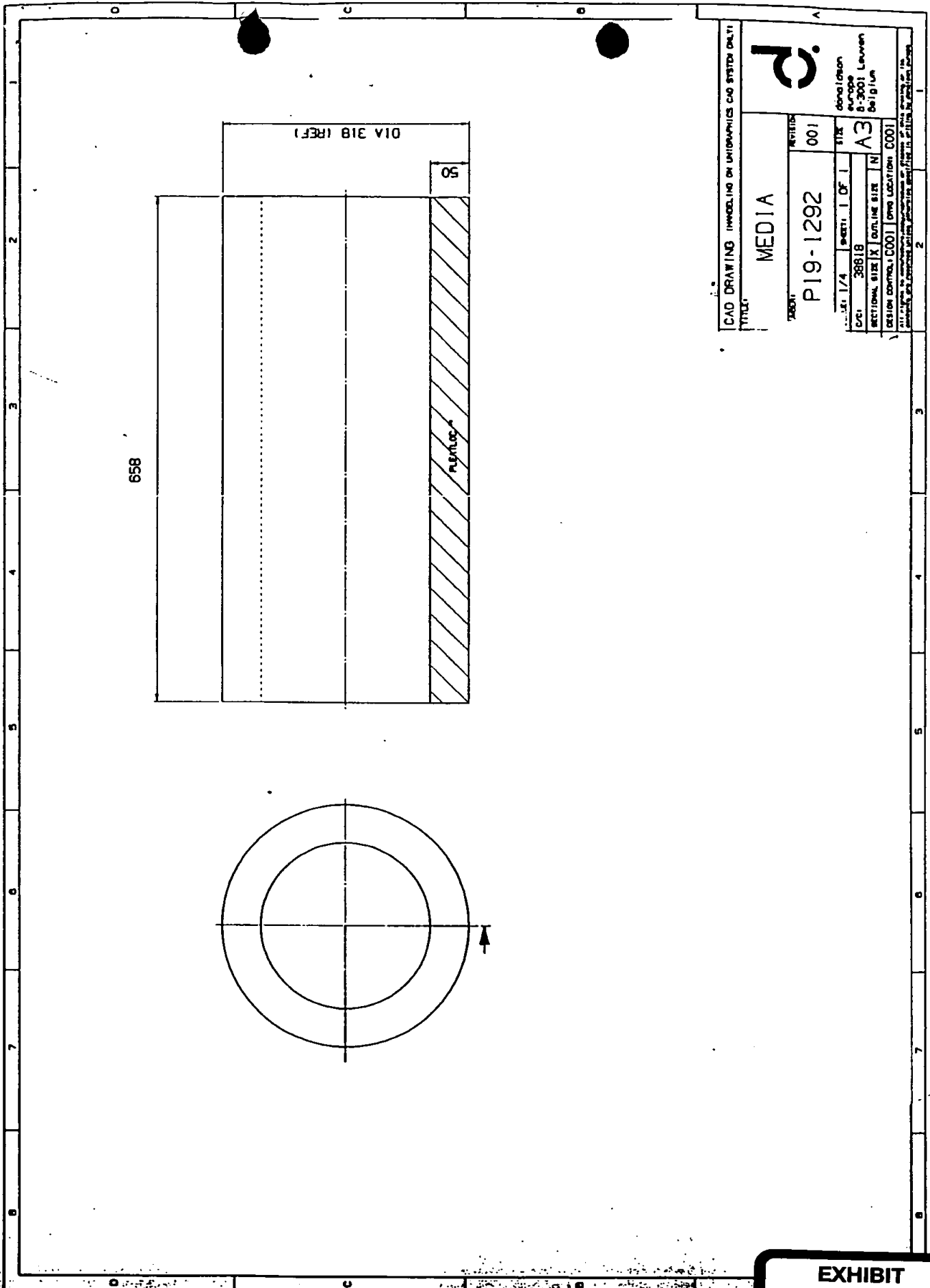
16. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title XVIII of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated:

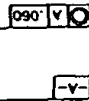
9/10/01

  
Doug Crofoot





CAD DRAWING INNOVATION ON UNIFORMITY CAD SYSTEM DLT	
TITLE: MEDIA	
PROJECT: P19-1292	REVISED: 001
DATE: 1/4	SECTION: 1 OF 1
DATE: 3/8/18	SECTION: A3
SECTIONAL SIZE: X	OUTLINE SIZE: N
DESIGN CONTROL: C001   DRAW LOCATION: C001	
ALL RIGHTS TO INVENTION, DESIGN OR PATENT OF THIS DRAWING ARE RESERVED BY THE DRAWING ORIGINATOR.	



## BILL OF MATERIAL

[illegible]

**EXHIBIT**

P

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